

Amendment to the Claims

Please cancel claims 50-72 without prejudice or disclaimer.

5 Please add claims 73-91 as shown below:

73. (New) A method of detecting patterns of activity by performing real-time, passive tracking of signals from a plurality of wireless terminals, which when operating, each transmit a uniquely identified network data which may be used to identify a position of the wireless terminals, transmit said network data periodically wherein a period of time intervals is determined by characteristics of the wireless network, the method comprising the steps of:

(a) extracting continuously from a wireless network said network data transmitted from each of a plurality of wireless terminals over the period of time at said periodic time intervals;

15 (b) determining the location of each of the plurality of wireless terminals when said network data are detected;

20 © storing the determined location of each of the plurality of wireless terminals over a period of time at said periodic time intervals;

(d) formulating the location history for each of the plurality of wireless terminals based on their respective stored locations over the period of time at said periodic time intervals;

25 (e) determining whether any of the formulated location histories for any of the plurality of wireless terminals corresponds to any of a plurality of predetermined patterns of interest.

74. (New) A method according to claim 1, wherein mobile terminals take part in habitual activities defined by physical movements of the mobile terminals around plurality of geographical points of their interest.

30 75. (New) A method according to claim 2, wherein said geographical points of interests are situated within the radio coverage of the wireless network.

76. (New) A method according to claim 1, wherein said step of extracting includes establishing a physical interface with the wireless network over one of passive interfaces.

35 77. (New) A method according to claim 1, wherein step of determining includes determining which, if any, of said wireless terminals has had a location at or near of a plurality of predetermined points of interest at or about a particular time of interest.

78. (New) A method according to claim 5, further comprising the step of: isolating the location history of any of said wireless terminals which either corresponds to any of the predetermined patterns of interest or has had a position at or near of a plurality of predetermined points of interest at or about a particular time of interest.

40 79. (New) A method according to claim 1, wherein said network data include periodic registration data and periodic RF signals transmitted over the wireless network.

80. (New) A method according to claim 1, wherein said step of extracting includes associating of said network data with a unique identifier of the wireless terminal.

45 81. (New) A method according to claim 8, where said unique identifier may include one or any combination of mobile directory number (MDN), Electronic Serial Number (ESN), Mobile Identity Number (MIN), Mobile Subscriber Identification (MSI), international mobile subscriber identity (IMSI), temporary mobile subscriber identity (IMSI), and/or mobile station international ISDN number (MSISDN).

50 82. (New) A method according to claim 9, further comprising the step of converting said unique identifier into an anonymous unique identifier that has a low correlation with one or more of said set of wireless terminal identifiers or a combination thereof.

83. (New) A method according to claim 1 wherein said step of determining location includes calculating location of wireless terminals using information contained in said network data such as Cell ID and radio transmission parameters.

84. (New) A method according to claim 1 wherein behavioural pattern is defined in part as a combination of time and location characteristics of wireless terminal movements at or near of a plurality of predetermined points of interest.

85. (New) A system encoded with instructions embodying a method of performing tracking and pattern analysis of historically archived signal data periodically transmitted from each of a plurality of wireless terminals in a wireless communication network, said system comprising:

10 At least one Mediation Server for interfacing with a wireless communication network to extract network data related to the signal data periodically transmitted from a plurality of wireless terminals; said Mediation Server being adapted to encrypt unique identifiers of wireless terminals;

15 At least one Profiling Server for receiving encrypted network data from said Mediation Server; said Profiling Server for interrogating said network data for at least one of the plurality of wireless terminals to determine trends in said network data for at least one wireless terminal, said Profiling Server for recognizing a pattern of activity from the determined trends in said network data, said Profiling Server determining if the pattern recognized corresponds to a predetermined pattern.

86. (New) A system encoded with instructions embodying a method according to claim 13, and further comprising the steps of:

20 If the recognized pattern is determined to correspond to the predetermined pattern, isolating the corresponding historically archived signal data; and identifying the owner of the wireless terminal having the recognized pattern based on the signal data by the anonymous identifier.

87. (New) A system according to claim 13, wherein said Mediation Server comprises an encryption processor for providing a two-way translation between unique identifiers and anonymous identifiers.

25 88. (New) A system according to claim 13, wherein said Mediation Server extracts said network data from the wireless network passively.

89. (New) A system according to claim 13, wherein said Profiling Server does not contain any of the unique identifiers of wireless terminals.

90. (New) A system according to claim 13, wherein said Profiling Server determines location of wireless terminals using extracted network data.

30 91. (New) A system according to claim 13, wherein said Profiling Server contains a data base for historical archiving of location data for historical references and subsequent analysis for patterns and trends.